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NOTICE OF ALLOWANCE AND FEE(S) DUE

77202

7590

08/13/2009

K&L Gates LLP 3580 Carmel Mountain Road Suite 200 San Diego, CA 92130

EXAMINER				
LIN, JERRY				
ART UNIT	PAPER NUMBER			
1621				

DATE MAILED: 08/13/2009

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFIRMATION NO.

 10/022,249
 12/17/2001
 Manuel Vega
 12/0239-00002 / 911
 7196

TITLE OF INVENTION: HIGH THROUGHPUT DIRECTED EVOLUTION BY RATIONAL MUTAGENESIS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	11/13/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

CURRENT CORRESPOND	DENCE ADDRESS (Note: Use Bi	lock 1 for any change of address)		papers. Each additiona	mailing can only be used four certificate cannot be used for all paper, such as an assignme	r domestic mailings of the or any other accompanying nt or formal drawing, must
77202	7590 08/13	3/2009		have its own certificate	e of mailing or transmission.	
K&L Gates LI 3580 Carmel M Suite 200	_P ountain Road			Cel I hereby certify that the States Postal Service vaddressed to the Mai transmitted to the USF	rtificate of Mailing or Trans his Fee(s) Transmittal is being with sufficient postage for firs I Stop ISSUE FEE address PTO (571) 273-2885, on the d	mission g deposited with the United st class mail in an envelope above, or being facsimile ate indicated below.
San Diego, CA	92130					(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/022,249	12/17/2001		Manuel Vega		120239-00002 / 911	7196
TITLE OF INVENTION	N: HIGH THROUGHPU	T DIRECTED EVOLUTI	ON BY RATIONAL I	MUTAGENESIS		
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE PREV. PAID ISSU	E FEE TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	11/13/2009
EXAM	MINER	ART UNIT	CLASS-SUBCLASS			
LIN, J	ERRY	163 I	702-019000	_		
Change of correspondence address (or Change of Correspondence or agents OR, alternatively,						
PLEASE NOTE: Un recordation as set for (A) NAME OF ASSI	less an assignee is ident th in 37 CFR 3.11. Comp GNEE		data will appear on t T a substitute for filing (B) RESIDENCE: (C	he patent. If an assign g an assignment. ZITY and STATE OR (nee is identified below, the decountry) orporation or other private gro	
4a. The following fee(s) are submitted: 1ssue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies			A check is enclos Payment by credi	ed. t card. Form PTO-2038	ny previously paid issue fee: B is attached. rge the required fee(s), any deer (enclose a)	
<i>o</i> •	itus (from status indicate ns SMALL ENTITY stati	,	☐ b. Applicant is no	alonger claiming SMA	LL ENTITY status. See 37 CI	FR 1.27(o)(2)
NOTE: The Issue Fee ar	nd Publication Fee (if req		d from anyone other th		istered attorney or agent; or th	
				Date		
					No	
This collection of inform	nation is required by 37 (TER 1.311. The information	on is required to obtain	or retain a benefit by	the public which is to file (and	Lby the USPTO to process)
an application. Confider submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	ntiality is governed by 35 dapplication form to the ions for reducing this bu Virginia 22313-1450. DO	U.S.C. 122 and 37 CFR U.SPTO. Time will vary rden, should be sent to th O NOT SEND FEES OR	1.14. This collection is depending upon the if the Chief Information OCOMPLETED FORM	s estimated to take 12 individual case. Any conficer, U.S. Patent and S TO THIS ADDRES	minutes to complete, includin omments on the amount of tir Trademark Office, U.S. Depa S. SEND TO: Commissioner	g gathering, preparing, and ne you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/022,249 12/17/2001		Manuel Vega	120239-00002 / 911	7196
77202 75	90 08/13/2009		EXAM	INER
K&L Gates LLP			LIN, J	ERRY
3580 Carmel Mour	ntain Road		ART UNIT	PAPER NUMBER
Suite 200 San Diego, CA 92130		1631 DATE MAILED: 08/13/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 76 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 76 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)			
Notice of Allowability	10/022,249 Examiner	VEGA ET AL. Art Unit			
1	JERRY LIN	1631			
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the co (OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	prrespondence address plication. If not included will be mailed in due course. THIS			
1. This communication is responsive to <u>4/20/09</u> .					
2. X The allowed claim(s) is/are <u>1-3,5-8,14,15,17-19,22-33,43</u> a	<u>and 44</u> .				
 3. ☐ Acknowledgment is made of a claim for foreign priority unall all black blac	been received. been received in Application No				
3. Copies of the certified copies of the priority doc	cuments have been received in this r	national stage application from the			
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:, Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.					
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.					
5. CORRECTED DRAWINGS (as "replacement sheets") mus	et be submitted.				
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached					
1) hereto or 2) to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date					
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).					
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	5. ☐ Notice of Informal Pa 6. ☐ Interview Summary Paper No./Mail Dat	(PTO-413),			
3 X Information Disclosure Statements (PTO/SB/08),	7. Examiners Amenda				
Paper No./Mail Date 4/16/09 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme 9. □ Other	nt of Reasons for Allowance			
/Jerry Lin/ Primary Examiner, Art Unit 1631 8/3/09					

The following is an examiner's statement of reasons for allowance: The prior art does not teach a high throughput method of directed evolution where mutations are introduced into a protein one by one along the full length of the protein an individually expressing each protein and then replacing the hit amino acids with all other amino acids and individually expressing and screening these modified hits to identify leads with a predetermined activity or property.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JERRY LIN whose telephone number is (571)272-2561. The examiner can normally be reached on 7:00-5:30pm, M-TH.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marjorie A. Moran can be reached on (571) 272-0720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 1631

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jerry Lin/ Primary Examiner, Art Unit 1631 8/3/09